

# Evaluate Model Integrity Patterns

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This document describes the boundaries between key subsystems in the domain model and the model-integrity patterns applied to maintain separation, clarity, and consistency.

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## 1. Overview

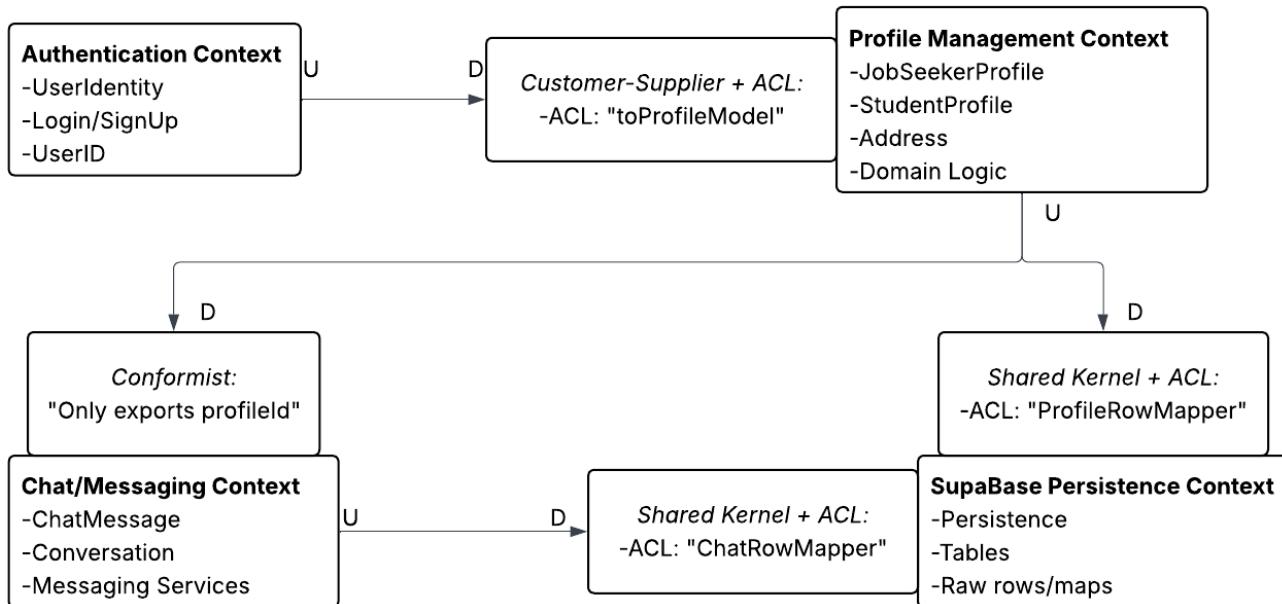
This document details:

- The subsystems (bounded contexts)
  - The upstream/downstream relationships between them
  - The model-integrity patterns applied (ACL, Shared Kernel, Customer–Supplier, Conformist)
  - The rationale behind each pattern
  - A diagram which is included below to visually represent the context map.
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## 2. Context Map Diagram

[https://lucid.app/lucidchart/29119dea-ad7e-4e32-a8de-109aa8e8b1e0/edit?viewport\\_loc=-160%2C-198%2C2265%2C1135%2C0\\_0&invitationId=inv\\_1a6ad0d4-b2c3-4cdc-afd2-25b23f3ea36b](https://lucid.app/lucidchart/29119dea-ad7e-4e32-a8de-109aa8e8b1e0/edit?viewport_loc=-160%2C-198%2C2265%2C1135%2C0_0&invitationId=inv_1a6ad0d4-b2c3-4cdc-afd2-25b23f3ea36b)

or



## 3. Bounded Contexts and Patterns

### 3.1 Authentication Context

#### Responsibilities

- UserIdentity
- Login / SignUp
- UserID

## Upstream

- None

## Downstream

- Profile Management Context

## Pattern Applied

- **Customer–Supplier + ACL**
    - ACL: `toProfileModel`
    - Authentication supplies stable identity data; Profile consumes it with translation.
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## 3.2 Profile Management Context

### Responsibilities

- JobSeekerProfile
- StudentProfile
- Address
- Profile domain logic

## Upstream

- Authentication Context

## Downstream

- Chat / Messaging Context
- Supabase Persistence Context

## Patterns Applied

- **Conformist** (toward Chat/Messaging Context)
    - Chat accepts `profileId` and profile structure.
  - **Shared Kernel + ACL** (toward Supabase Persistence Context)
    - ACL: `ProfileRowMapper`.
    - Shared domain-stable mapping rules.
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## 3.3 Chat / Messaging Context

### Responsibilities

- ChatMessage

- Conversation
- Messaging services

### Upstream

- Profile Management Context

### Downstream

- Supabase Persistence Context

### Pattern Applied

- **Shared Kernel + ACL**
    - ACL: [ChatRowMapper](#)
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## 3.4 Supabase Persistence Context

### Responsibilities

- Persistence access
- Database tables
- Raw rows / maps

### Upstream

- Profile Management Context
- Chat / Messaging Context

### Downstream

- None

### Pattern Applied

- **Shared Kernel**
    - Supports consistent persistence across contexts.
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## 4. Why These Patterns?

- Avoid tight coupling between domain areas
  - Create clear ownership of data and responsibilities
  - Allow each context to evolve independently
  - Provide controlled translation through ACLs
  - Keep persistence logic separate and stable
  - Ensure messaging and profile contexts stay clean and domain-focused
  - Reduce cross-context assumptions
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